WHAT IS CLAIMED IS:

1. A ventilator system comprising:

a mask to be placed over a wearer's face, said mask having a shell;

a cushion provided to the shell to sealingly connect the mask to the wearer's face and thereby form a chamber between the shell and the wearer's face; and

an inlet port in said shell to receive a flow of breathable gas; and an air flow generator, said air flow generator being mounted on said mask and being capable of creating a pressure of about 2-40cm H₂O in said chamber.

- 2. The system of claim 1, wherein the mask is structured to cover the wearer's nasal and oral region.
- 3. The system of any one of claims 1 or 2, wherein the mask is constructed to avoid obstruction of the wearer's vision or field of view.
- 4. The system of any one of claims 1-3, wherein said mask is absent a dust filter.
- 5. The system of any one of claims 1-4, wherein the mask is designed to have said inlet port located in front of the wearer's oral region.
- 6. The system of any one of claims 1-5, wherein said air flow generator has an air intake opening and an air outlet, said air outlet being positioned in proximity to said air inlet port of the mask.
- 7. The system of claim 6, wherein a perforated screen positioned between said air outlet and said inlet port.

8. The system of any one of claims 1-7, wherein said cushion comprises a silicone elastomer.

- 9. The system of any one of claims 1-8, wherein said air flow generator comprises a housing including an impeller and a motor to drive the impeller, said housing forming a contiguous surface with the shell.
- 10. The system of claim 9, the ventilator system further comprising a power cord and a power source, said power cord connecting said power source to said motor.
 - 11. The system of claim 10, wherein said power source is a battery pack.
- 12. The system of claim 11, wherein said battery pack comprises at least one fastener to mount the battery pack to said wearer's body.
- 13. The system of any one of claims 1-9, further comprising a self-contained power source.
 - 14. A ventilator system comprising:

a mask having

a shell;

a cushion provided to the shell to sealingly connect the mask to a wearer's face and thereby form a chamber between said shell and said wearer's face;

an inlet port in said shell to receive a flow of breathable gas; an air flow generator; and

an air delivery tube not exceeding 1.5 meters in length, said air delivery tube being functionally connected to said inlet port and said air flow generator to create a

pressure of about 2-40cm H₂O in said chamber by delivery of breathable gas from said air flow generator to said inlet port.

- 15. The system of claim 14, wherein said air delivery tube does not exceed 1 meter in length.
- 16. The system of any one of claims 14 or 15, wherein the air delivery tube is low in profile and is kink resistant.
- 17. The system of any one of claims 14-16, wherein the mask is structured to cover the wearer's nasal and oral region.
- 18. The system of any one of claims 14-17, wherein the mask is constructed to avoid obstruction of the wearer's vision.
- 19. The system of any one of claims 14-18, wherein said mask is absent a dust filter.
- 20. The system of any one of claims 14-19, wherein said air flow generator is absent a dust filter.
- 21. The system of any one of claims 14-20, wherein the mask is designed to have said inlet port located in proximity to a wearer's oral region.
- 22. The system of any one of claims 14-21, wherein said cushion comprises a silicone elastomer.
- 23. The system of any one of claims 14-21, wherein said air flow generator comprises a housing with an impeller and a motor for driving the impeller.
- 24. The system of claim 23, wherein said ventilator system further comprises a power cord and a power source, said power cord connecting said power source to said motor.
 - 25. The system of claim 24, wherein said power source is a battery pack.

26. The system of any one of claims 14-25, wherein said air flow generator comprises one or more straps or clips for mounting the air flow generator to the wearer's body.

- 27. The system of any one of claims 1-26, wherein said air flow generator is selectively detachable from the shell.
- 28. The system of claim 27, wherein the air flow generator and shell are coupled with a quick release clip.
- 29. The system of any one of claims 1-28, further comprising at least one sensor provided to the mask.
- 30. The system of claim 29, wherein the sensor is structured to provide a signal indicative of the fit of the mask.
- 31. The system of claim 29 or 30, wherein the sensor is structured to provide a signal indicative of leak on the basis of which the flow generator is adapted to be controlled.